

ABSTRACT

[0044] Reference patterns in accordance with the present invention can include variable frequency chevrons incorporated into a reference pattern on a printed media surface to improve servo demodulation. In one embodiment, the reference pattern can include one or more servo wedges having a preamble including digital information at a first frequency relative to the head when the rotatable medium is rotated at a spin speed. The servo wedges further include at least one field having a first set of a plurality of phase-bursts forming a positive chevron angle relative to the preamble and a second set of a plurality of phase-bursts forming a negative chevron angle relative to the preamble, wherein a frequency of the at least one field relative to the head when the rotatable medium is rotated at the spin speed varies between a first end of the media surface and a second end.